

Code.No: 43163

R07

SET-1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
II.B.TECH - I SEMESTER REGULAR EXAMINATIONS NOVEMBER, 2009
ENVIRONMENTAL STUDIES

(Common to ECE, CHEM, ETM, ECC, AE)

Time: 3hours

Max.Marks:80

Answer any FIVE questions
All questions carry equal marks

- 1.a) What is Environmental Education? Explain its objectives and activities.
b) What is environment? Explain the various components of environment. [8+8]
- 2.a) What are alternate energy sources? Explain their present status, merits and demerits.
b) How land is a resource? Explain causes and control measures of land degradation. [8+8]
- 3.a) What are ecological pyramids? Draw ecological pyramids for a pond and a desert ecosystem.
b) Explain the characteristic feature, and functions of desert ecosystem. [8+8]
- 4.a) Discuss the causes of man-wild life conflicts. Suggest suitable wildlife conservation practices.
b) Explain the values of bio diversity [6+10]
- 5.a) What are sources of marine pollution? Explain its control measures.
b) What is thermal pollution? Explain its impacts in stream water Quality [8+8]
- 6.a) What is acid rain? Explain its impact on human health, land, and water bodies.
b) Explain the typical features of water (prevention and control) Act [10+6]
- 7.a) What are environment related diseases? Explain the various steps to be taken to control them.
b) Explain the variation of population growth among nations. [8+8]
- 8.a) Prepare a detailed report on the types of pollution produced due to a local polluted site in an urban area.
b) Prepare a detailed report on the management of water and waste water in your town/city. [8+8]

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Time: 3hours

Max.Marks:80

Answer any FIVE questions
All questions carry equal marks

- 1.a) Define environmental studies. Explain its scope and importance.
b) What are the different activities to be organized to create environmental awareness among (i) Farmers (ii) Industrialist (iii) villagers [8+8]
- 2.a) What are benefits of dams? Explain environmental impacts of large dams.
b) Explain the environmental impacts of
(i) Fertilizer – Pesticide (ii) over grazing [8+8]
- 3.a) What is ecosystem? Compare nature ecosystem with engineered ecosystem with examples.
b) Discuss the typical features of an estuarine ecosystem. [8+8]
- 4.a) What is biodiversity? Explain different types of biodiversity with practical examples.
b) Explain in-situ and Ex-situ conservation of bio diversity with examples. [8+8]
- 5.a) Explain role of an individual in prevention of environmental pollution.
b) Discuss the causes, effects and control measures of air pollution. [8+8]
- 6.a) What is enhanced global warming? Explain it's causes and effects on human health and natural resources.
b) State the typical features of environmental protection act. [10+6]
- 7.a) What are women and child welfare schemes in India? Explain briefly
b) Discuss the environment problems encountered in our daily life due to population explosion. [6+10]
- 8.a) What is the importance of an environmental awareness campaign? Share your experiences on attending / conducting such programs.
b) Write a detailed report on characteristics, structure and functions of pond ecosystem which you have visited as part of environmental field visit. [8+8]

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SET-3

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Time: 3hours

Max.Marks:80

Answer any FIVE questions
All questions carry equal marks

- 1.a) Discuss about multi disciplinary nature of environmental studies.
b) What is difference between environmental science and environmental studies. Explain scope of environmental studies. [6+10]
- 2.a) What are direct and indirect benefits of forests? Explain in detail ecological services of forest ecosystem.
b) Define "Mining" Explain various environmental impacts of mineral extraction. [8+8]
- 3.a) What is ecological succession? Explain various stages of ecological succession.
b) Explain human threats on (i) Desert ecosystem (ii) Forest ecosystem [8+8]
- 4.a) What do you mean by consumptive use value, productive use value, social value, ethical value and optional value of biodiversity.
b) Write short note on Hot-spots of bio diversity. [10+6]
- 5.a) What is noise pollution & list the possible impacts of noise pollution on human health.
b) What is solid waste management? Explain briefly various management practices of solid waste. [8+8]
- 6.a) What is concept of sustainable development? Explain different life styles to be practiced to transfer from unsustainable to sustainable development.
b) What is water shed? Explain various types of water shed management practices. [8+8]
- 7.a) Explain the role of information technology in environment and human health.
b) Write a critical note on HIV and AID in adults. [8+8]
8. Assuming you have visited marine ecosystem near Madras city as the leader of a group of students, prepare a detailed report with reference to (i) Sources of pollution (ii) Impact of pollution. Based on findings, suggest suitable remedies for control of marine pollution. [16]

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Time: 3hours

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Answer any FIVE questions
All questions carry equal marks

- 1.a) Discuss the impacts of human activities on environment. Suggest suitable sustainable measures to overcome them.
- b) How would environmental awareness help to protect our environment. [8+8]
- 2.a) Define deforestation? Explain the causes and impacts of deforestation.
- b) What are the major causes for conflicts over water resources. [8+8]
- 3.a) Discuss the major characteristics features of a river ecosystem different from a lake ecosystem.
- b) Explain energy flow pattern in different types of ecosystems. [10+6]
- 4.a) Discuss the values of biodiversity
- b) Explain endangered and endemic species of India. [10+6]
- 5.a) What is difference between natural disaster and manmade disaster? Explain disaster management plan for earth quake.
- b) What are sources and control measures of water pollution. [8+8]
- 6.a) What are problems of resettlement and rehabilitation problems of developmental project? Suggest suitable remedies.
- b) What are environmental ethics? Explain how these implementations useful to protect our environment. [8+8]
- 7.a) What is difference between HIV and AID? Explain how value education can help to control them.
- b) Explain the role of information technology in environment and human health. [8+8]
- 8.a) Give a detailed report on any two medicinal plants and any two birds and their uses to the human life.
- b) Prepare a detailed report on the nature and amount of pollution generated by a modern agricultural farm site you visited. [8+8]
